

### **optical superresolution pdf**

concepts of optical superresolution mostly in the context of linear optical systems. The literature on optical superresolution is vast and the term superresolution itself has been used with various meanings in different contexts. Mathematical concepts of optical superresolution Optical super-resolution through super-oscillations Figure 4.

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The requirement for optical super-resolution (OSR) imaging, beyond the diffraction limit, in many areas of biology, medicine and material research, has caused a great interest in recent years.

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worthwhile to revisit the classical theory of optical superresolution. This review discusses mathematical concepts of optical superresolution mostly in the context of linear optical systems. The literature on optical superresolution is vast and the term superresolution itself has been used with various meanings in different contexts.

### **Mathematical concepts of optical superresolution**

This book explores ways to improve the classical resolution limits of an imaging system. Various approaches dealing with exceeding the limitations of the lens aperture, the pixel's size in the camera, and the noise generated at the detector are presented and analyzed. The book starts by

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Super-resolution optical flow takes as input a conventional video stream, and simultaneously computes both optical flow and a super-resolution version of the entire video.

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The last chapter illustrates several industry-related examples and potential applications to real industrial electro-optical systems. This book is intended for graduate students or researchers in academia or industry, and anyone else looking to improve the performance of their electro-optical system design.

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optical microscope focused at different heights  $h$  above the quasi-periodic nanohole array when it is illuminated with a thermal white light source. The image size is  $35 \text{ \AA} \times 35 \text{ \AA}$ . These phenomena were observed with a quasi-periodic array of nanoholes arranged in a famous Penrose-like pattern (see Figure 2(a)) which was known in Eastern design ...

### **Optical super-resolution through super-oscillations**

A brief analysis indicates that current optical-superresolution techniques can still have their performance considerably augmented. Increasing the resolving power of optical systems beyond the limits imposed by diffraction, or superresolution, has considerable theoretical as well as practical interest.

## **OSA | Fundamental limits of optical superresolution**

Review of Super-Resolution Fluorescence Microscopy for Biology ... marize far-Åželd super-resolution optical microscopy. As SIM, STED, (F)PALM, ... However, these super-resolution microscopes, which were mostly developed and designed by physicists and chemists, are not as user-friendly as conventional optical microscopes. Currently there is

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